



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Newton County Landfill, Brook, Indiana

FROM: Vicky Mei, Environmental Engineer
AECAB (IL/IN)

THRU: Nathan Frank, Section Supervisor
AECAB (IL/IN)

TO: File

BASIC INFORMATION

Facility Name: Newton County Landfill

Facility Location: 2266 E 500 S, Brook, Indiana 47922

Date of Inspection: July 8, 2022

EPA Inspector(s):

1. Vicky Mei, Environmental Engineer
2. Karina Kuc, Environmental Scientist

Other Attendees:

1. Tim Atwater, Operations Manager, Republic Services
2. Megan Crowley, Environmental Manager, Republic Services
3. Laura Niemann, Consultant, EIL
4. Natalie Murray, Environmental Specialist, Republic Services
5. Joshua McGarry, General Manager, Republic Services
6. Cliff Yukawa, Environmental Manager, IDEM

Contact Email Address: jmcgarry@republicservices.com

Purpose of Inspection: Clean Air Act inspection

Facility Type: Municipal Solid Waste Landfill

Regulations Central to Inspection: 40. C.F.R. Part 60, Subpart XXX – Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014

Arrival Time: 9:00 AM

Departure Time: 11:30 AM

Inspection Type:

- ☒ Unannounced Inspection
- ☐ Announced Inspection

OPENING CONFERENCE

- ☒ Presented Credentials
- ☒ Stated authority and purpose of inspection
- ☐ Provided Small Business Resource Information Sheet
- ☒ Small Business Resource Information Sheet not provided. Reason: Not a small business
- ☒ Provided CBI warning to facility

The following information was obtained verbally from Republic staff and representative unless otherwise noted.

Process Description:

The landfill is the largest Republic Service landfill in the Midwest. The landfill has 25 years of life left with 6 cells to build out. The landfill expanded a few years ago and started construction on May 28, 2018 to add a small cell. Tarps and soil from the stockpile are used as daily cover. There are three flares each with 3,000-standard cubic feet per minute (scfm) blowers. The two flares on the south side of the landfill are the most used. The flare installed in 2006 has a capacity of 6,000 scfm. The flare installed in 2012 has a capacity of 5,500 scfm. As part of the expansion, a 6,000 scfm flare was added in 2019. The fourth flare is rarely used. Landfill gas is compressed, dewatered, filtered and transferred via pipeline for off-site use. Leachate is treated at an on-site wastewater treatment plant. Deep leachate injection wells were permitted in 2021 for leachate disposal underground. The pug mill mixes fly ash with treated leachate to create a gravel-like solid, which are then applied to the active area. The silos are controlled by a dust collector.

Staff Interview: Most of the waste consists of municipal solid waste and 18% is construction and demolition waste. Surface emission monitoring and gas well monitoring are conducted by contractors. There have not been any subsurface oxidation events and odor complaints recently. An estimated 90% of the leachate will be injected underground via the deep wells when construction of the wells is complete. There are 219 leachate pumps in wells. The air in the wastewater treatment building is vented to a flare.

TOUR INFORMATION

EPA Tour of the Facility: Yes

Data Collected and Observations:

EPA toured the landfill and saw the plug mill, flares, and integrity of the cover.

Photos and/or Videos: were taken during the inspection.

Field Measurements: were not taken during this inspection.

RECORDS REVIEW

1. Landfill map

CLOSING CONFERENCE

☒ Provided U.S. EPA point of contact to the facility

Requested documents:

- All active permits
- Water level readings (2-3 years)
- Flare performance test for each of the flares
- Surface emission monitoring reports (2-3 years)
- Emission test for the pug mill
- Material safety sheet for the chemical used in the Conex boxes
- Landfill gas flow rates and temperature monitoring data (2-3 years)
- Well parameter monitoring standard operating procedure

DIGITAL SIGNATURES

Report Author: _____

Section Supervisor: _____

APPENDICES AND ATTACHMENTS

- 1.* Appendix A: Photo and Video Log

Facility Name: Newton County Landfill
Facility Location: 2266 E 500 S, Brook, Indiana 47922
Date of Inspection: July 8, 2022

APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Karina Kuc and Vicky Mei	2. Archival Record Location: <i>OneDrive</i>
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Image Number	File Name	Date and Time (CST)	Latitude and Longitude	Description of Image
1	IR_0385.jpg	2022:07:08 11:12:48	40.926617, -87.342533	Flare
2	IR_0386.jpg	2022:07:08 11:13:18	40.926567, -87.342267	Flare
3	MOV_0387.mp4	2022:07:08		Flare
4	P7080020.JPG	2022:07:08		Pug mill
5	P7080021.JPG	2022:07:08		Leachate holding tank
6	P7080022.JPG	2022:07:08		Pretreatment plant
7	P7080023.JPG	2022:07:08		Active area
8	P7080024.JPG	2022:07:08		Backup flare
9	P7080025.JPG	2022:07:08		Deep well tank
10	P7080026.JPG	2022:07:08		Closed area
11	P7080027.JPG	2022:07:08		Location of future deep wells
12	P7080028.JPG	2022:07:08		Downhill of the top of the oldest hill
13	P7080029.JPG	2022:07:08		Interim cover
14	P7080030.JPG	2022:07:08		Storage box
15	P7080031.JPG	2022:07:08		Two south flares and the four blowers